	Application No.	Applicant(s)
	дриовной но.	Applicatings
Notice of Allowability	10/708,203	SHEI ET AL.
Notice of Anowability	Examiner	Art Unit
	Kevin Quinto	2826
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>4 January 2005</u> .		NATHARI SUPERVISORY
2. The allowed claim(s) is/are <u>1,3-19 and 21-26</u> .		SUPERVISORY TECHNOLOGY
3. The drawings filed on 16 February 2004 are accepted by the Examiner.		
4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)		
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0: Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Sun Paper No./M 8), 7. ☐ Examiner's A	rmal Patent Application (PTO-152) nmary (PTO-413), ail Date mendment/Comment satement of Reasons for Allowance

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DETAILED ACTION

Allowable Subject Matter

- 1. Claims 1, 3-19, and 21-26 are allowed.
- 2. The following is an examiner's statement of reasons for allowance: the examiner is unaware of any prior art which suggests or renders obvious a flip-chip light emitting diode (LED) package with a package substrate and an LED (which is face down and inverted on the package substrate) that has the following layer structure: device substrate, a first doped layer made of a III-V semiconductor material of a first conductivity type (having an electrode), a light emitting layer, a second doped layer made of a III-V semiconductor material of a second conductivity type, a strained superlattice contact layer, a transparent conductive oxide layer, a transparent insulating layer, and a reflecting layer (having an electrode). Furthermore the examiner is unaware of any prior art which suggests or renders obvious a flip-chip light emitting diode (LED) package with a package substrate and an LED (which is face down and inverted on the package substrate) which utilizes a transparent conductive oxide layer (having a thickness which results in constructive interference) as an ohmic contact layer between a reflecting layer and a strained-layer superlattice contact layer.
- 3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Quinto whose telephone number is (571) 272-1920. The examiner can normally be reached on M-F 8AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KVQ